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Effect of Benzo(a)pyrene and Derivatives on Mammalian Lung Cells.

The objectives of this project are:

(1) To determine whether metabolic hydroxymethylation of benzo(a)pyrene to the 6-hydroxymethyl derivative represents a pathway for the formation of a more proximate carcinogen; and

(2) To determine levels of benzo(a)pyrene metabolizing enzymes in the lungs of mice susceptible and resistant to chemical carcinogens.

The first step will be the determination of mouse lung levels of both the aryl hydroxymethyl synthetase and the aryl side chain methyl hydroxylase, that converts 6-methyl benzo(a)pyrene to the hydroxymethyl derivative.

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Current Grant Level: $12,893.

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